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## **AMENDMENTS TO THE CLAIMS**

- 1. (Currently Amended) [[An]] A repeated pattern layer for a pixellated light modulating device comprising a cell having a light modulating medium and a plurality of electrodes defining pixels, and further comprising having a plurality of switching regions within each repeat unit, wherein each switching region is arranged to impart one of at least two predetermined electro-optic characteristics to [[a]] said light modulating medium wherein the regions are arranged such that any pixel area of the repeated pattern layer above a certain size repeat unit length is less than half the length of the minimum pixel dimension and wherein each pixel contains regions areas of each electro-optic characteristic in substantially the same relative proportion as any other pixel [[area]].
- 2. (Original) A repeated pattern layer as claimed in claim 1 wherein the switching regions are arranged in a repeat unit as a two dimensional grid.
- 3. (Original) A repeated pattern layer as claimed in claim 2 wherein the grid is arranged such that the switching regions are varied in both of said two dimensions.
- 4. (Currently Amended) A repeated pattern layer as claimed in claim 3 wherein grid is arranged such that any line through the grid substantially parallel to one of the grid dimensions intersects substantially the same proportion of regions areas of each electro-optic characteristic.
- 5. (Currently Amended) A repeated pattern layer as claimed in claim 3 wherein the grid may be formed by a regular array of switching [[areas]] regions arranged in rows and columns and wherein each row and each column contains one or more of switching [[areas]] regions of each electro-optic characteristic in the same proportion.
- 6. (Currently Amended) A repeated pattern layer as claimed in claim 5 wherein the relative numbers of <u>switching</u> regions of <u>areas of</u> each characteristic in each row and column are weighted with respect to each other.
- 7. (Currently Amended) A repeated pattern layer as claimed in claim 5 wherein each row and column contains one [[area]] <u>switching region</u> of each electro-optic characteristic.

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8. (Original) A repeated pattern layer as claimed in claim 2 wherein the grid has a repeat unit that is rectangular.

- 9. (Withdrawn) A repeated pattern layer as claimed in claim 1 wherein the repeated pattern layer comprises an alignment layer for a liquid crystal device.
- 10. (Withdrawn) A repeated pattern layer as claimed in claim 9 wherein the different electro-optic characteristic is a different alignment direction.
- 11. (Withdrawn Currently Amended) A repeated pattern layer as claimed in claim 10 wherein the proportion of switching [[areas]] regions having a first alignment direction is significantly greater than the proportion of switching [[areas]] regions having a different alignment direction.
- 12. (Withdrawn) A repeated pattern layer as claimed in claim 9 wherein each switching region having a different switching characteristic comprises an alignment grating having a different grating property.
- 13. (Withdrawn) A repeated pattern layer as claimed in claim 12 wherein the different grating property is pitch of the grating.
- 14. (Withdrawn) A repeated pattern layer as claimed in claim 12 wherein each alignment grating is a zenithally bistable liquid crystal alignment grating.
- 15. (Withdrawn) A light modulating device comprising a cell containing a light modulating medium, the cell having a plurality pixel areas wherein the cell comprises an repeated pattern layer according to claim 1.
- 16. (Withdrawn) A light modulating device as claimed in claim 15 wherein the light modulating medium is a liquid crystal material.
- 17. (Withdrawn Currently Amended) A light modulating device as claimed in claim 16 wherein the patterned layer is located between a liquid crystal alignment layer and the device electrodes and wherein the patterned layer comprises a dielectric layer wherein each switching

regions region has a different dielectric property so as to alter the voltage applied to the liquid crystal material.

- 18. (Withdrawn) A light modulating device as claimed in claim 17 wherein the different dielectric property is thickness and/or dielectric constant of the dielectric material.
- 19. (Withdrawn Currently Amended) A light modulating device as claimed in claim 15 wherein the patterned layer comprises a layer of retardation films and the differing electro-optic characteristic of the switching [[areas]] regions is the orientation of the retardation axis and/or the magnitude of retardation.
- 20. (Withdrawn) A method of fabricating a light modulating device comprising the steps of; forming a patterned layer having a plurality of switching regions, wherein each switching region is arranged to impart one of at least two predetermined electro-optic characteristics to a light modulating medium and wherein the switching regions are arranged such that any pixel area on the patterned layer above a certain size comprises switching regions of each switching characteristic in substantially the same relative proportion as any other pixel area, and

combining said patterned layer in a cell comprising a light modulating medium and a plurality of electrodes forming a plurality of pixel areas wherein said combination step does not involve a mask alignment step.

- 21. (Withdrawn) A method according to claim 20 wherein the light modulating device is a liquid crystal device.
- 22. (Withdrawn) A method according to claim 21 wherein each switching region has an alignment grating and wherein the properties of the grating are varied in order to impart the various electro-optic characteristics.
- 23. (Withdrawn) A method according to claim 22 wherein the property of the grating varied in the different alignment regions is the grating pitch.

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24. (Withdrawn) A method according to claim 22 wherein the method of forming the alignment layer comprises embossing a master grating bearing a negative of the required alignment layer into a conformal layer and curing the conformal layer.

- 25. (New) A repeated pattern layer as claimed in claim 1 wherein the repeat unit length is less than a third of the length of the minimum pixel dimension.
- 26. (New) A repeated pattern layer as claimed in claim 1 wherein said electrodes defining the pixels are not substantially aligned with edges of a repeat unit.